

**Climatological Data for December, 1910.**  
**DISTRICT No. 1, NORTH ATLANTIC STATES.**

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**GENERAL SUMMARY.**

The month of December, 1910, was exceptionally cold throughout the district. It was the coldest month of the year, which is very unusual, January or February nearly always claiming this distinction. It was also the coldest December in many years, certainly the coldest since the famous cold December of 1904, and, in some parts of the district, probably the coldest December since 1880 or 1876, both of which were exceptional in this respect.

The low average temperature of the month was due not so much to the occurrence of severe cold waves, although there were three severe cold periods during the month, as to the persistent, steady cold weather that characterized the first, second, and part of the third decades. The minimum temperatures were not unusually low for the season, but there was a rather remarkable absence of warm periods that usually accompany the passage of low areas. The number of such areas that passed directly over the district or sufficiently near to influence the weather to a marked degree was greater than usual, there being no less than seven, but the movement of these depressions was so rapid that the temperature conditions were not greatly affected. The high-pressure areas, of which there were seven also, being rather sluggish of movement and of considerable strength, therefore, dominated the conditions in the district for the most part. It was not until near the close of the month that the rather slow movement of a deep depression northeastward throughout the entire length of the district developed sufficient strength to break up the persistent cold weather and bring about the only comparatively mild period of the month.

The precipitation was generally not well distributed, and considerably below the normal amount. Snow fell to a considerable depth early in the month, and, as there was little melting, accumulated to a depth of from 10 to 15 inches over northern New York and New England. As far south as Maryland and northern Virginia there was sufficient snow for excellent sleighing during much of the month.

**TEMPERATURE.**

The mean temperature of the month was  $25.6^{\circ}$ , which is about  $6^{\circ}$  below the normal and  $5^{\circ}$  below the average for December, last year, and ranged from  $20.7^{\circ}$  in New York to  $30.4^{\circ}$  in Virginia. The deficiency was unusually uniform throughout the entire district, but slightly less in New England, and slightly greater in New York and Virginia than elsewhere. There were three marked cold periods, the 10-11th, 17th, and 31st; and one warm period, the 29th and 30th.

The first general cold period of the month occurred about the close of the first decade, although the average temperature since the beginning of the month had remained continuously below the normal over most of the district, and a period of unusually cold weather had been experienced in parts of Virginia during the 8th and 9th. The passage of a depression of moderate intensity down the St. Lawrence Valley, followed by the usual anticyclonic conditions, caused a very rapid change to colder over New England and New York during the afternoon of the 9th, which, spreading southward, reached the southern limits of the district by the morning of the 10th, where temperatures near zero were recorded. The cold weather continued throughout the 10th and 11th, with temperatures in New England and most of New York ranging from  $0^{\circ}$  to  $-10^{\circ}$ . In some of the more elevated parts of these sections, temperatures of  $-20^{\circ}$  were not uncommon, while one station, Indian Lake, in the

Adirondack Mountains, reported  $-28^{\circ}$  on the 10th and  $-21^{\circ}$  on the 11th.

The temperature moderated considerably during the next few days, but the comparatively slight rise had not brought it up to the normal when a second cold period developed on the 17th, which was about equally widespread and nearly as severe over most of the district as the preceding. Although more moderate conditions followed, the weather remained decidedly cold for the season until near the close of the third decade, when the only warm period of the month occurred. The rise of temperature set in during the 26th and culminated on the 29th and 30th, when the highest temperatures of the month were recorded generally. During the night of the 30th a sudden change to colder occurred and the month closed with decidedly cold weather in all parts of the district.

**PRECIPITATION.**

The average precipitation for the district was 2.37 inches, which is about 0.87 inch below the December normal and over 1 inch less than that of December, last year. The deficiency was general, but the distribution rather irregular, the amounts recorded at stations having records of 10 years or more being above normal in 26 cases, and below in 181. The greatest deficiency occurred in central New York, northern Pennsylvania, and northern New Jersey, where it ranged from 1 to 2 inches. This shortage was largely due to the fact that the storm of the 6-7th, with heavy precipitation in other districts, brought but little moisture to this region, passing too far south. The precipitation in this section had been similarly deficient for 6 to 8 months, and the early occurrence of prolonged freezing weather contributed much toward producing the low stage of wells, streams, and springs. Hence, the problem of water supply became remarkably serious before the heavy rains and thawing weather of the last week of December brought a measure of relief. The following paragraphs taken from the Reading (Pa.) Eagle of December 20 illustrate the conditions that prevailed in parts of the three States named:

The water situation in many sections of this and adjoining counties is becoming acute. Springs and wells are failing. Farmers are obliged to drive their live stock to the nearest streams, a distance of several miles. In some places snow is being melted in large quantities and the water used for domestic and other purposes.

Along the East Penn Railroad the situation is alarming. Wells are being sunk deeper in many places, and small factories are having artesian wells bored, in order to secure a more bounteous water supply.

The frequency of precipitation was not unusual for the month as a whole, cold and comparatively dry weather continuing until the 24th, and milder rainy weather until the 30th. During the first period snow was the prevailing form of precipitation, and the chief dates of its occurrence were the 6-7th, 11th, 15th, and 19-20th. On the 1st and 2d light snow was general from Pennsylvania northward, but the storms that followed affected only the southern part of the district until the 15th, when snow occurred over New York and the New England States. The first storm that caused precipitation of consequence in all parts of the district occurred on the 19-20th.

One storm that caused a heavy fall of snow over the southern part of the district between the 5th and 7th deserves special mention. Between the 3d and the 5th this storm had moved rapidly from the north Pacific coast to northern Alabama and Georgia, and, during the next two days passed northeastward, increasing in energy as it approached the Atlantic coast near eastern Virginia. Snow set in over the southern part of the district on the 5th and continued for

nearly 48 hours, reaching Pennsylvania and southern New York about one day later. The influence of this storm extended scarcely farther north than central Connecticut, but heavy snow, ranging in depth from about 4 to more than 10 inches, fell throughout the district south of that latitude, the average depth being probably not less than 6 inches. On Long Island the amounts recorded from this storm were as follows: Cutchogue, 13 inches; Oyster Bay, 8; Setauket, 9; Southampton, 19; and Wading River, 12 inches. It is believed that the snowfall was still heavier in parts of other States.

Most of the snow that resulted from this and other storms remained on the ground until about the 24th, except in the lowlands of the States south of Pennsylvania.

With the change to warmer weather that occurred about the 24th, rain became the prevailing form of precipitation and was of wide occurrence nearly every day. Considerably more than half of the month's precipitation occurred after the 24th, and in nearly all parts of the district, the greatest daily amounts, generally in excess of 1 inch, were recorded on that date. Moderately heavy rains were general over the district on the 28th and 29th, but on the 31st the weather became clear and cold.

#### RIVER CONDITIONS.

Low river stages were general during the month in all parts of the district. As in the preceding month, the greatest deficiency of water was in the Delaware system. At the beginning of the month most streams were somewhat below the usual stage for that season, but they gradually became lower for one or two weeks according to the locality, when

the continued cold weather caused them to freeze over. The low stages of the rivers together with the steadiness of the cold made unusually favorable conditions for the formation of ice. From the 28th to the 30th there was warm weather with general rains, which broke up the ice and caused the streams to rise rapidly. The Delaware at Port Jervis rose from 4.1 feet on the 30th to 9.7 feet on the following day.

The following taken from the report of the official in charge local office, Weather Bureau, at Harrisburg, Pa., illustrates the prevailing conditions for the central part of the district.

The upper portion of the north and west branches of the Susquehanna River became generally icebound during the first week of December, and the lower portions of both branches and the main river froze over during the second week of the month. Owing to continued cold weather the ice increased in thickness, and during the last decade of the month a large amount, ranging from 7 to 12 inches in thickness, was harvested. Mild weather with rains during the closing days of the month caused a general break-up in both branches, but no unusual stages or serious ice gorges resulted.

#### SUNSHINE.

The amount of sunshine was fully up to the average, and the values recorded in various parts of the district showed more uniformity than is usually the case. The percentage obtained at the several stations ranged between 41 and 58, except at Eastport, Me., where it was only 16. The average for all stations was 47 per cent, which is 7 per cent above the average for the preceding month. The number of days with 80 per cent or more of the possible sunshine varied from 6 to 12, there being 10 as far north as Portland, Me.; but at Eastport, Me., there were none, while 21 days gave a percentage of 20 or less. The total number of hours of sunshine averaged 137.

## MONTHLY WEATHER REVIEW.

DECEMBER, 1910

TABLE 1.—Climatological data for December, 1910. District No. 1, North Atlantic States.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing direction of wind.	Observers.	
				Mean.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.			
<i>Maine.</i>																			
Bar Harbor.	Hancock.	20	24	23.0	-3.8	50	30	-6	18	45	4.25	-0.65	1.70	9.0	12	15	0	16	nw.
Cornish.	York.	778	55	20.8	-4.4	43	24	-8	11 <sup>†</sup>	39	3.42	-0.17	1.08	17.5	8	13	8	10	w.
Eastport.	Washington.	53	33	22.6	-2.7	49	30	-4	31	43	3.68	-0.31	1.56	12.0	14	0	7	24	w.
Ellsworth.	Hancock.	0	20.0	—	—	47	25 <sup>†</sup>	-12	18	52	3.44	—	1.74	8.0	14	10	2	19	w.
Fairfield.	Somerset.	90	25	18.8	-2.9	44	24	0	13 <sup>†</sup>	27	2.90	+0.23	1.46	13.2	8	13	7	11	nw.
Farmington.	Franklin.	450	13	17.0	-0.5	41	20	-13	11	41	2.74	-0.41	1.53	12.5	11	14	4	13	nw.
Gardiner.	Kennebec.	163	18	19.8	-3.9	52	25 <sup>†</sup>	-12	18	47	2.97	-0.11	1.96	16.5	13	15	4	12	nw.
Greenville.	Piscataquis.	1,000	6	13.8	—	46	24	-16	31	34	2.64	—	1.43	4.4	9	—	—	—	—
Houlton.	Aroostook.	302	8	16.8	—	41	26	-20	18	58	0.87	—	0.45	7.0	4	11	4	10	nw.
Lewiston.	Androscoggin.	185	36	19.5	-3.9	44	24	-4	18	38	3.14	-1.01	1.51	13.2	11	14	7	24	nw.
Madison.	Somerset.	257	7	15.2	—	43	25 <sup>†</sup>	-15	19	47	2.99	—	1.57	8.0	8	17	11	3	nw.
Millinocket.	Penobscot.	386	7	17.1	—	44	24	-11	31	36	2.96	—	1.97	7.2	10	11	3	17	nw.
North Bridgton.	Cumberland.	450	17	21.4	-2.3	48	30	-5	11 <sup>†</sup>	36	3.63	+0.49	1.52	2.5	9	10	12	9	n.
Orono.	Penobscot.	129	41	19.6	-1.7	47	24	-18	18	42	2.88	-0.71	1.40	12.5	11	16	6	14	nw.
Patten.	do.	550	8	16.9	—	40	25	-15	31	43	2.73	—	0.98	8.0	11	3	11	17	w.
Portland.	Cumberland.	99	39	22.0	-5.1	48	30	0	31	43	3.43	-0.25	1.19	13.0	11	10	6	15	nw.
Presque Isle.	Aroostook.	0	13.4	39	24	—	20	18	45	1.73	—	0.80	6.8	8	8	1	22	nw.	
Rumford Falls.	Oxford.	505	17	17.8	-3.7	42	24	-7	31	37	2.31	-0.31	1.14	11.1	10	17	7	7	nw.
Winslow.	Kennebec.	90	15	16.2	—	45	24	-18	31	40	2.78	—	1.74	13.5	8	14	8	9	w.
<i>New Hampshire.</i>																			
Alstead Center.	Cheshire.	1,120	6	17.3	-6.0	45	19	-8	31	31	2.93	+0.06	0.94	18.0	10	16	6	9	nw.
Benton.	Grafton.	0	14.1	40	24	-15	31	38	2.38	—	1.00	13.5	6	12	9	10	nw.	n.	
Bethlehem.	do.	1,470	18	13.2	-7.4	44	30	17	31	41	2.58	+0.26	0.68	17.0	12	11	8	12	sw.
Concord.	Merrimack.	350	50	20.6	-5.8	49	30	4	31	48	2.47	-0.88	0.99	11.1	11	7	12	12	nw.
Durham.	Stafford.	88	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Franklin.	Merrimack.	440	11	20.4	—	43	30	-7	31	34	2.62	—	1.09	20.5	8	9	12	10	nw.
Grafton.	Grafton.	863	24	16.6	-5.2	42	30	-12	31	33	2.55	+0.24	0.90	23.0	9	8	9	14	nw.
Hanover.	do.	603	76	14.6	-6.8	42	30	14	10 <sup>†</sup>	40	2.38	+0.02	1.06	12.1	12	6	10	15	nw.
Keene.	Cheshire.	506	25	20.0	-5.6	44	24 <sup>†</sup>	-11	10	36	0.84	—	1.00	9.2	9	7	14	10	nw.
Nashua.	Hillsboro.	125	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Newton.	Rockingham.	22	22.0	-5.7	50	30	-3	11 <sup>†</sup>	37	1.91	-0.94	0.99	8.5	10	10	15	6	nw.	
Plymouth.	Grafton.	500	22	18.0	-4.2	39	24 <sup>†</sup>	-7	31	30	2.64	-0.53	1.20	16.5	7	18	2	11	w.
<i>Vermont.</i>																			
Bloomfield.	Essex.	3	13.6	—	41	24	-19	11 <sup>†</sup>	35	1.74	—	0.87	11.2	12	12	8	11	s.	
Cavendish.	Windsor.	910	7	17.6	41	19	-12	11 <sup>†</sup>	34	1.41	—	0.73	8.0	4	16	6	9	w.	
Chelsea.	Orange.	830	15	12.8	-8.4	42	29	-21	17	39	2.07	+0.02	0.85	19.0	8	12	5	14	n.
Jacksonville.	Windham.	1,000	13.0	-9.8	43	24	-13	9	45	0.38	-3.86	0.20	6.0	4	24	5	2	nw.	
Manchester.	Bennington.	980	11	16.4	—	44	24 <sup>†</sup>	-11	10	39	0.87	—	0.41	10.8	3	4	13	14	sw.
St. Johnsbury.	Caledonia.	711	17	14.1	-6.6	36	24 <sup>†</sup>	-19	11	32	1.21	-0.13	0.76	11.3	11	12	5	14	nw.
Woodstock.	Windsor.	700	18	13.0	-8.5	41	30	-21	22	41	2.14	-0.39	1.07	15.2	5	3	1	27	do.
<i>Massachusetts.</i>																			
Amherst.	Hampshire.	222	21	21.8	-5.5	47	24	2	10	38	1.72	-1.79	1.34	2.5	7	13	9	10	nw.
Blue Hill.	Norfolk.	640	26	23.7	-6.1	51	30	0	16	32	2.59	-0.86	1.35	10.2	16	11	7	13	w.
Boston.	Suffolk.	124	40	27.5	-4.1	55	30	6	31	43	2.10	-1.31	1.25	8.1	11	10	6	15	w.
Chestnut Hill.	do.	124	30	26.4	-4.0	54	30	1	11	31	2.91	-0.29	1.45	9.5	10	20	2	9	n.
Clinton.	Worcester.	370	14	23.8	—	49	24	2	15 <sup>†</sup>	40	2.40	—	1.25	7.7	8	17	7	7	n.
Concord.	Middlesex.	139	20	22.8	-4.7	51	30	5	11	41	2.03	-1.31	1.14	7.5	12	8	13	10	nw.
Fall River.	Bristol.	200	44	26.6	-7.6	53	29	4	16	35	2.99	-0.44	1.30	15.5	11	10	13	8	sw.
Fitchburg.	Worcester.	550	27	23.8	-4.7	50	30	0	31	31	2.43	-1.20	1.24	5.0	8	17	3	11	nw.
Framingham.	Middlesex.	160	30	24.4	-5.9	51	30	2	10	37	3.54	+0.04	1.36	17.7	9	14	13	4	nw.
Hyannis.	Barnstable.	31	19	27.6	-9.5	46	30	4	16	23	2.04	-1.17	1.12	9.0	10	6	21	4	w.
Lawrence.	Essex.	51	26	23.2	-5.4	52	30	0	23	38	2.04	-1.40	1.00	9	9	12	10	10	sw.
Middleboro.	Middlesex.	100	25	25.6	-3.2	50	30	0	23	37	2.15	-0.41	1.24	10.6	12	8	10	13	nw.
Plymouth.	Hampden.	53	24	24.7	-6.3	52	30	11	17	41	2.80	-1.23	1.35	10.0	10	14	10	7	nw.
Monson.	Nantucket.	420	26	22.4	-6.3	52	30	6	10	38	2.39	—	1.69	7.3	16	6	13	12	w.
Nantucket.	Bristol.	15	24	30.8	-5.9	49	30	9	16	31	4.33	+0.69	1.04	10.0	9	10	9	12	nw.
New Bedford.	Norfolk.	244	7	23.2	—	57	30	-11	10	40	4.05	—	1.92	11.2	9	17	10	4	nw.
Northampton.	Hampshire.	205	2	23.1	—	47	24 <sup>†</sup>	0	10	47	2.09	—	1.44	1.5	6	16	0	15	nw.
Plymouth.	Plymouth.	25	25.2	—	52	30	1	17	44	3.11	—	1.35	10.8	10	13	6	12	n.	
Provincetown.	Barnstable.	40	23	30.8	-4.3	51	30	9	16	28	2.75	-0.97	1.27	9.5	9	22	0	9	w.
Rockport.	Essex.	25	8	27.9	-0.7	49	30	5	31	32	3.04	-0.45	0.82	8.8	10	9	12	10	nw.
Rutland.	Worcester.	1,160	8	20.2	—	48	29	2	15 <sup>†</sup>	38	2.53	—	1.41	5.0	7	13	7	11	sw.
South Egremont.	Berkshire.	764	8	18.7	—	46	29	8	17	39	2.14	—	1.00	10.2	9	9	7	11	nw.
Turners Falls.	Franklin.	200	19	21.4	-4.1	42	24 <sup>†</sup>	3	10	36	2.08	-1.21	1.39	5.2	7	12	7	11	nw.
Westboro.	Worcester.	208	36	26.4	-3.8	50	30	2	16	30	2.17	-1.11	1.50	5.2	10	10	11	11	nw.
Williamstown.	Berkshire.	711	19	19.9	-8.0	47	30	7	10	34	2.32	-0.92	1.00	13.0	10	6	10	15	w.
Worcester.	Worcester.	518	18	24.2	-5.4	44	24	3	10	25	1.82	-1.33	1.04	10.0	9	12	10	11	nw.
<i>Rhode Island.</i>																			
Newport.	Newport.	26	30	29.8	-6.8	50	24	8	16	31	2.50	-1.32	0.99	7.3	11	9	6	16	nw.
Bristol.	Bristol.	53	24	27.8	-5.8	48	24	7	16	27	2.36	-0.95	1.04	8.0	10	15	9	7	nw.
Kingston.	Washington.	250	2																

TABLE 1.—Climatological data for December, 1910. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.			Departure from the normal.			Highest.			Lowest.								
				Date.	Lowest.	Date.	Highest.	Date.	Greatest daily range.	Total.	Date.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, .01 inch or more.	Number of clear days.						
<b>New York—Cont'd.</b>																					
Binghamton.	Broome.	875	19	21.0	-6.7	48	29	-6	17	41	2.41	-0.53	0.95	9.3	15	4	5	22	w. nw.		
Bouckville.	Madison.	1,350	13	17.2	-5.3	41	30	-11	31	32	2.60	-1.10	0.55	17.5	12	4	12	15	U. S. Weather Bureau. L. W. Griswold.		
Boyd's Corners.	Putnam.	560	23								2.97	-1.25							Thomas Manning.		
Carmel.	do.	500	18	21.7	-7.8	44	24	-5	17	35	3.00	-1.27	1.65	3.0	10	18	3	10	Do. Morton R. Tank.		
Chatham.	Columbia.	470	9	21.4		40	24	-5	17	33	1.47		1.00	0.95	6	8	11	11	Elizabeth C. Keese.		
Cooperstown.	Otsego.	1,250	56								1.88	-0.99	0.44	17.8	10	15	2	14	A. M. Hollister.		
Corinth.	Saratoga.	542	8								2.25		0.95						Wm. A. Fleet.		
Cortland.	Cortland.	1,129	48	21.8	-4.4	40	30	-6	17	27	2.39	-0.72	0.95	19.6	16	6	3	22	F. G. Baker.		
Cutchogue.	Suffolk.	32	33	28.2	-5.1	49	29	-4	17	29	3.88	-1.47	1.70	18.0	11	10	17	4	B. D. Crandall.		
De Ruyter.	Madison.	1,300	7	20.2		41	26	-11	26	42	2.88		0.98	14.8	11	4	7	20	H. Taber.		
Easton.	Washington.	20									1.61	-1.20	0.70	11.0	5				Gerity Bros.		
Elmira.	Chemung.	863	31	23.8	-5.2	43	15†	-5	16	37	0.60	-1.82	0.50		2	2	12	17	C. E. Wing.		
Fort Hunter.	Montgomery.	280	2															Abram Dervendorf.			
Fort Plain.	do.	316	6	21.4		44	14	-3	31	31	1.56		0.63	8.0	7	10	9	12	Prof. C. L. Williams.		
Glens Falls.	Warren.	340	19	18.5	-5.3	41	30	-13	17	30	2.47	-0.93	1.02	9.0	9	10	6	15	W. L. McLean.		
Gloversville.	Fulton.	850	18	16.7	-6.2	40	30	-10	10	29	2.43	-1.40	0.78	12.5	9	10	12	9	S. E. Darrow.		
Greenfield Center.	Saratoga.	314	12	17.0	-7.6	44	24	-12	16	29	2.09	-1.10	0.68	6.0	6	13	9	sw.			
Greenwich.	Washington.	425	13	18.8	-5.1	45	30	-11	15†	33	2.31	-0.66	0.88	16.0	10	5	19	Homer J. Whitecomb.			
Griffin Corners.	Delaware.	2,260	19	19.2		49	15	-12	17	37	2.20		0.90	6.0	8	18	6	7	Harold O. Judd.		
Haskinsville.	Steuben.	15									1.60	-0.51	0.35	14.9	13				W. G. Collins.		
Homer.	Cortland.	3		18.1	-8.6	43	30	-10	17	36	2.17		0.53	15.3	13	8	7	16	Charles C. Mortimer.		
Hoosick Falls.	Rensselaer.	410	8								2.29		0.63	11.2	10	20	3	8	Sanford L. Cluett.		
Indian Lake.	Hamilton.	1,705	11								2.90	-0.57	1.05	21.0	5	17	2	12	Lester Severe, Jr.		
Jeffersonville.	Sullivan.	1,240	7	19.9		41	24†	-14	17	38	1.77		0.70	10.0	9	10	14	7	Charles Wilbert, Jr.		
Lake Pleasant.	Hamilton.	3									2.00		0.90	11.0	4				Willett Lawrence.		
Liberty.	Sullivan.	2,300	28	14.8	-9.8	43	29	-5	10†	33	2.10	-1.74	0.80	15.5	12	10	1	20	Dr. H. M. King.		
Little Falls.	Herkimer.	924	12	16.3	-6.7	43	30	-11	31	37	1.52	-1.70	0.66	10.0	8	14	9	8	O. J. Dempster.		
Mohonk Lake.	Ulster.	1,245	14	21.2	-4.9	48	30	-2	16	33	2.58	-1.07	1.80	4.0	4	18	6	7	Albert K. Smiley.		
Morehouseville.	Hamilton.	1,697	2	14.1		42	30	-27	10	42	2.07		0.60	27.5	16	9	6	16	Theodore C. Remonda.		
Mount Hope.	Westchester.	200	13															Wm. A. Cornelius.			
Newark Valley.	Tioga.	825	23								1.50	-0.93	0.68	15.0	11	8	7	16	M. D. Clinton.		
New Berlin.	Chenango.	3									1.40		0.55	5.5	16	4	3	24	Roger Greene.		
New Lisbon.	Otsego.	1,234	20	16.0	-8.2	43	29†	-10	17	39	1.90	-1.17	0.92	14.0	11	5	4	22	G. A. Yates.		
New York City.	New York.	314	85	28.0	-6.4	53	30	9	16	36	1.95	-1.50	0.82	8.9	9	12	8	11	U. S. Weather Bureau.		
North Creek.	Warren.	1,002	2	16.0		38	29	-15	17	35	1.98		0.80	10.0	7	14	8	9	W. G. Konwell.		
Northville.	Fulton.	742	8								2.59		1.10	8.5	6				P. C. Pickard.		
Norwich.	Chenango.	1,015	4	19.58		40	30	-4	17	29†									P. L. Clark.		
Oneonta.	Otsego.	1,112	16	20.2	-7.7	47	30	-1	16†	36	1.99	-1.16	0.75	9.8	14	8	9	sw.			
Oxford.	Chenango.	916	45	19.2	-8.5	40	30	-11	17	30	3.16	+0.09	0.70	19.0	15	1	12	18	nw.		
Port Jervis.	Orange.	470	26															John P. Davis.			
Salisbury.	Herkimer.	1,526	13	13.4	-7.8	38	24	-16	31	39	2.88	-1.45	0.80	13.0	10	16	8	7	Joseph Ryan.		
Salisbury Mills.	Orange.	314	22	8.8		49	23	-7	18	45	1.86	-2.04	0.72	7.5	7	22	3	6	W. Powell Ramsdell.		
Scarsdale.	Westchester.	200	6	26.2		52	29	2	17	28	2.15		0.75	10.5	7	15	12	4	C. H. Wilmarth.		
Setauket.	Suffolk.	40	25	28.5	-6.3	51	30	7	17	28	2.87	-1.10	1.36	10.0	9	16	4	11	Selab B. Strong.		
Sherburne.	Chenango.	3									2.11		0.76	14.7	12	7	3	21	E. B. Collins.		
Southampton.	Suffolk.	36	9	28.0		48	24†	4	17	32	4.05		1.00	21.7	12	11	16	4	W. L. Jaggar.		
Southeast Reservoir.	Putnam.	310	15								2.48	-1.71							Thomas Manning.		
Spier Falls.	Saratoga.	400	9	18.2		42	14	-12	16	37	2.01		0.91		6	12	3	16	Geo. E. Fifield.		
Trenton Falls.	Oneida.	751	7								2.31		0.50		9				C. W. Young.		
Tribe Hill.	Montgomery.	268	7								2.30		0.80	13.0	5				R. S. Marshall.		
Wading River.	Oneida.	537	44								2.13	-1.20							W. E. Young.		
Wappingers Falls.	Suffolk.	112	4	27.0		51	24	2	11	30	2.99		1.33	14.5	13	13	6	12	H. B. Fullerton.		
Warwick.	Dutchess.	110	20	22.9	-5.2	46	24	-3	17	30	2.02	-1.84	0.54	9.0	9	11	12	8	H. C. Townsend.		
Waverly.	Orange.	538	18								1.70		1.36	0.90	12.0	7			John W. Sly.		
West Berne.	Tioga.	824	20	7.7	-7.7	42	14†	-18	17	44	1.51	-1.02	0.48	9.7	16	0	17	14	Hon. J. F. Shoemaker.		
West Point.	Albany.	946	11	18.4	-5.5	51	30	6	16	36	1.29	-1.13	0.30	9.0	7	9	8	20	W. J. Haverly.		
Windham.	Orange.	167	61	24.8	-6.6	50	30	-5	16	34	2.01	-1.51	1.30	5.0	8	14	10	7	Maj. Chas. M. Gandy.		
Greene.	Greene.	1,520	10	18.6	-6.4	51	30	-5	16	37	1.69	-1.61	1.05	4.0	7	10	17	4	A. R. Mott.		
Altona.	Blair.	1,181	22	29.4	+ 0.4	54	29	7	10	30	1.53	-1.36	0.73		10				C. W. Billin.		
Bethlehem.	Northampton.	260	1	26.2		51	35	4	10†	34	2.29		1.00	12.2	6	18	0	13	Prof. E. C. Roest.		
Clearfield.	Clearfield.	1,107	2	22.6		43	27	-9	17	43	2.75		0.52	18.3	12	13	4	14	Raymond C. Ogden.		
Emporium.	Cameron.	1,050	22	21.8	-8.1	45	29	-1	18	35	3.61	+0.11	0.74	12.0	11	4	8	T. B. Lloyd.			
Ephrata.	Lancaster.	384	11	24.2	-6.7	47	24†	-2	17	31	2.23	-1.46	0.78	11.7	9	16	3	12	W. L. Frantz.		
Everett.	Bedford.	1,080	23	23.6	-5.8	47	29	-8	9	39	0.64	-2.62		9.7	6	0	5	26	B. L. Steckman.		
George School.	Bucks.	184	4	26.0		52	30	-3	10	37	2.97		1.62	9.5	8	14	2	15	Prof. A. C. Smedley.		
Gettysburg.	Adams.	600	36	26.4	-5.2	53	49	-20	10	32	2.11	-1.15	0.88	12.4	10	9	9	13	Col. E. B. Cope.		
Gordon.	Schuylkill.	804	7	21.6		46	29†	-10	10	39	4.04		1.46	30.5	13	16	3	12	Capt. J. G. Johnson.		
Hamburg.	Berks.	380	19	24.8	-7.8	45	24	4	12	34	3.32	-0.57	0.70	10.0	10	18	2	11	W. J. Kalbach.		
Harrisburg.	Dauphin.	361	22	26.7	-6.6	48	30	-2	10	37	2.57	-0.08	0.97	13.8	12	6	11	14	U. S. Weather Bureau.		
Huntingdon.	Huntingdon.	650	25	25.8	-6.3	45	29	-5	10	34	2.25	-0.94	0.65	15.0	9	9	5	17	Prof. W. J. Swigart.		
Hyndman.	Bedford.	977	4	26.0																	

## MONTHLY WEATHER REVIEW.

DECEMBER, 1910

TABLE 1.—Climatological data for December, 1910. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeasured.	Number of rainy days, .01 inch or more.	Number of partly cloudy days.	Number of cloudy days.				
<i>New Jersey—Cont'd.</i>																					
Boonton.	Morris.	413	20	28.4	-7.2	54	29	0	10	31	2.95	-0.96	1.38	9.0	13	7	11	nw.	Foster Peer.		
Bridgeton.	Cumberland.	30	29	28.4	-7.2	54	29	0	10	31	3.22	-0.38	1.20	12.0	3	13	9	nw.	H. A. Jordan.		
Burlington.	Burlington.	12	26	25.9	-6.7	53	30	1	10	34	2.50	-1.24	1.20	13.2	8	13	9	nw.	D. S. B. McCoy.		
Canton.	Salem.	24	16	28.6	-6.6	50	30	14	17	23	2.94	-0.84	0.78	2.3	8	10	12	nw.	J. H. Maskell.		
Cape May City.	Cape May.	17	28	31.4	-6.6	50	30	14	17	23	2.94	-0.84	0.78	2.3	8	10	12	nw.	U. S. Weather Bureau.		
Charlotteburg.	Passaic.	719	18	24.2	-5.8	51	29	3	18	32	2.30	-2.09	1.43	7.0	9	11	8	nw.	G. S. Briggs.		
Chatham.	Morris.	234	8	23.0	-5.8	51	29	3	18	32	2.09	-2.09	1.20	9.0	9	11	8	nw.	M. A. Butler.		
Clayton.	Gloucester.	126	17	27.8	-6.2	54	29	3	10	33	3.70	+0.36	1.16	14.0	7	11	8	nw.	W. T. Farley.		
College Farm.	Middlesex.	100	15	25.9	-6.7	53	30	1	10	34	2.50	-1.24	1.17	8.8	10	11	9	nw.	G. B. Thrasher.		
Culvers Lake.	Sussex.	348	9	26.6	-5.5	50	30	5	17	25	2.90	-1.22	1.35	13.6	14	10	12	nw.	B. E. Riker.		
Dover.	Morris.	575	26	22.6	-7.5	48	29	4	17	25	2.90	-1.22	1.43	10.3	9	10	9	nw.	W. C. Harris.		
Elizabeth.	Union.	33	31	28.0	-5.5	50	30	5	17	22	2.79	-1.00	0.95	9.5	9	11	12	nw.	W. M. Oliver.		
Flemington.	Hunterdon.	187	22	25.8	-6.2	49	30	-	7	10	36	-1.40	1.06	8.0	8	11	10	w.	H. E. Deats.		
Haddonfield.	Camden.	75	16	27.4	-5.9	55	29	-	1	10	3.04	-0.61	1.15	12.9	9	11	6	nw.	C. F. Richardson.		
Hammonton.	Atlantic.	80	12	26.9	-6.7	55	30	0	10	33	3.36	-0.20	1.18	8.7	8	13	6	nw.	Orville Bassett.		
Hightstown.	Mercer.	85	18	26.9	-6.7	52	30	-	3	17	3.27	-0.91	1.11	12.5	6	13	6	nw.	Ernst Wenger.		
Hightwood.	Bergen.	90	25.4	25.4	-6.7	52	30	-	3	17	3.27	-0.91	1.18	8.0	11	11	11	nw.	Charles J. Bates.		
Imlayshtown.	Monmouth.	108	24	26.8	-7.2	58	29	-	5	10	3.32	-0.77	1.20	14.8	11	12	8	nw.	Dr. F. C. Price.		
Indian Mills.	Burlington.	76	21	26.8	-7.2	58	29	-	5	10	3.32	-0.77	1.20	14.8	11	12	8	nw.	James Armstrong.		
Jersey City.	Hudson.	15	12	28.4	-5.6	53	30	9	16	30	2.50	-1.06	1.03	8.6	9	11	10	nw.	S. K. Pearson, Jr.		
Lakewood.	Ocean.	54	8	26.4	-5.6	54	29	1	10	37	3.35	-0.77	1.15	17.0	10	8	12	nw.	Ralph Robertson.		
Lambertville.	Hunterdon.	95	24	26.3	-7.0	50	30	-	4	12	31	-1.33	1.04	11.8	9	11	9	nw.	W. R. Bowne.		
Layton.	Sussex.	550	11	20.8	-6.6	45	24	-	14	17	3.97	-1.20	1.45	13.0	9	10	11	nw.	W. C. Hursh.		
Little Falls.	Passaic.	175	7	28.1	-5.7	54	30	4	17	33	2.84	-0.77	1.10	8.4	9	11	8	nw.	A. Sweetman.		
Long Branch.	Monmouth.	30	3	28.1	-5.7	54	30	4	17	33	2.84	-0.77	0.78	15.5	9	11	8	nw.	B. B. Bobbitt.		
Mahwah.	Bergen.	312	8	28.1	-5.9	54	30	4	17	33	2.84	-0.77	0.78	15.5	9	11	8	nw.	C. J. Barker.		
Moorestown.	Burlington.	71	48	27.4	-5.9	54	29	3	10	32	3.06	-0.52	1.14	14.1	10	13	9	nw.	J. C. Beans.		
Newark.	Essex.	140	67	27.4	-5.6	48	24	6	17	30	2.85	-0.95	1.18	13.4	11	10	6	nw.	Prof. Wm. Wiener.		
New Brunswick.	Middlesex.	61	57	26.1	-7.0	51	30	-	2	10	38	2.70	-1.05	1.60	10.0	9	12	8	w.	W. G. Atwood.	
Newton.	Sussex.	675	31	28.1	-5.7	54	30	4	17	33	2.84	-0.77	0.78	15.5	9	11	8	nw.	W. L. Flick.		
Northfield.	Atlantic.	3	28.1	-6.2	50	29	-	2	10	33	3.52	-0.77	1.12	9.3	8	10	7	nw.	Spencer Haines.		
Paterson.	Passaic.	110	39	26.5	-6.6	45	24	5	17	30	2.12	-1.99	1.13	8.6	11	10	14	7	nw.	G. S. M. Holdrum.	
Phillipsburg.	Warren.	190	13	24.9	-6.4	50	30	2	12	33	2.31	-1.37	1.17	9.9	12	10	11	w.	P. Hardcastle.		
Plainfield.	Union.	100	24	26.2	-5.7	50	30	-	1	10	30	2.54	-1.35	1.06	10.0	12	10	10	nw.	Dr. W. J. Chandler.	
Pleasantville.	Atlantic.	26	12	28.1	-5.7	50	30	-	1	10	30	2.91	-0.76	0.91	8.0	11	8	12	nw.	George Dymock.	
Pompton Plains.	Morris.	195	8	28.1	-5.7	50	29	-	1	10	30	2.07	-0.77	1.10	8.0	10	10	7	nw.	Paul H. Wendel.	
Rancocas.	Burlington.	68	47	22.9	-7.8	50	29	-	6	10	38	2.88	-0.82	1.24	12.6	10	15	4	nw.	F. R. Austin.	
Rivervale.	Bergen.	70	19	22.9	-7.8	50	29	-	6	10	38	2.88	-0.82	1.24	12.6	10	15	4	nw.	Alfred Chalmers.	
Somerville.	Somerset.	76	27	25.9	-6.0	50	30	-	1	17	32	2.54	-1.03	1.20	10.5	10	10	9	nw.	Prof. H. A. Dodge.	
South Orange.	Essex.	200	40	26.0	-6.0	51	30	4	17	32	2.27	-1.56	1.40	9.5	9	11	9	w.	John C. Fisher.		
Sussex.	Sussex.	442	20	23.8	-6.0	44	27	-	5	12	31	1.92	-1.82	0.56	11.5	10	13	11	nw.	John C. Linthicum.	
Trenton.	Mercer.	60	38	28.6	-7.6	53	29	-	5	17	31	2.31	-1.20	1.20	9.5	10	12	9	nw.	J. M. Mallow.	
Tuckerton.	Ocean.	23	17	27.4	-7.1	52a	30	-	2	10	34	3.41	-0.87	1.13	12.2	8	13	5	nw.	W. M. Abbott.	
Vineland.	Cumberland.	118	41	28.1	-6.2	52	29	-	2	10	33	2.84	-0.77	0.78	15.5	9	11	7	nw.	Elmer E. Yingling.	
Woodbine.	Cape May.	43	19	28.3	-6.2	50	29	-	2	10	33	2.84	-0.77	0.78	15.5	9	11	7	nw.	U. S. Weather Bureau.	
<i>West Virginia</i> .																					
Bayard.	Grant.	2,500	8	23.0	-5.8	50	29	-	8	17	51	3.81	-0.50	32.2	17	7	4	20	w.	Solomon Clark.	
Burlington.	Mineral.	875	15	27.8d	-4.8	53	30	-	1	10	35d	1.30	-1.51	1.00	13.0	3	16	4	nw.	J. W. Vandiver.	
Franklin.	Pendleton.	3	27.6	28.2	-5.8	50	30	-	1	17	49	1.00	-0.60	10.0	3	16	4	nw.	A. A. Martin.		
Lost City.	Hardy.	4	28.2	28.2	-5.8	50	29	-	2	17	49	1.80	-0.80	14.0	4	15	7	9	w.	B. D. Hinegardner.	
Martinsburg.	Berkeley.	435	19	27.4	-5.5	50	30	0	10	30	3.45	-1.12	1.20	13.5	3	16	9	nw.	G. W. Van Metre, C. E. Keenan.		
Moorefield.	Hardy.	900	14	26.9	-6.8	50	29	-	3	10	44	1.56	-0.70	1.00	14.0	4	3	23	5	nw.	John C. Fisher.
Romney.	Hampshire.	824	14	26.5	-6.2	57	30	0	10	34	1.88	-0.57	0.85	11.0	5	16	8	w.	John C. Linthicum.		
Upper Tract.	Pendleton.	1,230	12	27.6	-6.7	60	29	0	9	42	1.03	-1.62	0.50	10.0	3	3d	9d	nw.	J. M. Mallow.		
<i>Maryland</i> .																					
Annapolis.	Anne Arundel.	45	32	29.0	-8.0	50	28d	-	10	16	29	3.47	-0.32	1.10	9.0	6	12	7	12	nw.	W. M. Abbott.
Bachmans Valley.	Carroll.	860	17	26.2	-5.2	52	30	-	1	10	36	2.35	-0.06	0.80	15.0	7	18	9	4	w.	Elmer E. Yingling.
Baltimore.	Baltimore.	115	40	31.2	-5.7	58	30	12	10	31	2.45	-0.63	0.63	10.5	7	11	5	15	sw.	U. S. Weather Bureau.	
Cambridge.	Dorchester.	25	12	32.0	-5.8	62	29	15	10	30	3.43	-0.47	1.17	6.2	6	12	7	11	nw.	T. E. Keenan.	
Cheltenham.	Prince George.	230	10	30.5	-5.8	63	29	5	10	33	3.55	-1.90	1.35	7	10	10	11	nw.	J. E. Burbank.		
Chestertown.	Kent.	80	25	30.2	-5.1	58	29	4	10	34	1.78	-1.68	1.10	12.0	4	11	6	se.	M. W. Thomas.		
Chewsville.	Washington.	530	13	25.7	-6.1	53	30	-	3	10	32	1.73	-1.08	0.52	11.6	7	14	4	nw.	D. Paul Oswald.	
Clear Spring.	do.	650	13	26.8	-4.2	57	15	-	4	10	32	1.37	-2.36	0.80	11.2	5	9	16	nw.	W. W. Frantz.	
Coleman.	Kent.	80	12	30.2	-5.5	55	29	8	10	29	2.35	-2.10	1.05	10.0	7	18	2	11	nw.	J. S. Harris.	
College Park.	Prince George.	170	20	28.6	-7.0	50	29	-	4	10	40	1.86	-1.12	0.85	8.5	7	21	3	nw.	Prof. H. J. Patterson.	
Cumberland.	Allegany.	700	36	26.6	-7.4	49	29	3	10	30</											

TABLE 1.—*Climatological data for December, 1910. District No. 1—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of overcast days.		
<i>District of Columbia.</i>																				
Washington, <i>Virginia.</i>	District of Columbia.	112	40	30.5	— 5.6	62	29	8	10	29	2.04	— 0.52	0.90	1.0	8	13	2	16	nw.	U. S. Weather Bureau.
Culpeper.	Culpeper.	450	3	27.5	— 9.8	59	29	— 5	9	41	1.96	— 0.63	0.80	11.0	5	6	20	5	nw.	Col. H. C. Burrows.
Dale Enterprise.	Rockingham.	1,350	31	25.6	— 9.8	57	29	— 4	8	43	2.07	— 0.63	0.72	12.0	8	17	6	sw.	Rev. L. J. Heatwole.	
Doswell.	Hanover.	134	10	32.6	— 6.6	66	29	8	13 <sup>t</sup>	41	0.65	— 0.30	4.0	4	10	16	5	w.	R. F. & P. R. R.	
Eastville.	Northampton.	15	1	36.3	— 6.7	67	30	14	17	28	3.77	— 0.76	105	1.0	9	19	3	nw.	T. B. Robertson.	
Fredericksburg.	Spotsylvania.	100	32	30.9	— 6.0	67	29	4	14	43	2.72	— 0.76	0.99	10.5	7	14	7	10	nw.	S. G. Howison.
Lincoln.	Loudoun.	500	10	26.7	— 5.6	56	27	— 5	8	44	1.83	— 0.58	1.50	15.0	6	7	15	9	n.	Dr. George Roberts.
Mount Weather.	do.	1,726	7	25.7	— 5.8	57	29	9	16	29	3.67	— 0.58	2.22	21.1	8	12	8	11	nw.	U. S. Weather Bureau.
Quantico.	Prince William.	16	13	30.3	— 4.6	61	29	— 7	10 <sup>t</sup>	39	2.71	— 0.65	1.65	7.0	5	13	9	9	nw.	R. F. & P. R. R.
Staunton.	Augusta.	1,380	19	39.3	— 8.4	60	29	— 7	13	34	2.02	— 0.46	.85	10.6	7	11	11	9	sw.	Kernest Notnagel.
Stephens City.	Frederick.	710	19	28.1	— 6.8	55	29 <sup>t</sup>	5	10	33	1.95	— 0.66	1.02	16.3	6	13	9	9	nw.	B. R. Argenbright.
Warsaw.	Richmond.	160	19	33.3	— 4.9	67	29	12	17	45	2.40	— 0.34	0.30	9.0	7	9	11	11	n.	C. H. Constable.
Woodstock.	Shenandoah.	927	15	28.2	— 6.4	58	29	— 4	9	38	1.69	— 0.69	.70	16.1	8	16	9	6	w.	Mrs. Adolyne G. Artz.

<sup>a</sup>, <sup>b</sup>, <sup>c</sup>, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

\* Precipitation included in that of the next measurement.

\*\* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

‡ Separate dates of fall not recorded.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

|| Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

Estimate by observer.

¶ Precipitation for the 24 hours ending on the morning when it is measured.

T Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for December, 1910. District No. 1, North Atlantic States.*

TABLE 2.—*Daily precipitation for December, 1910. District No. 1—Continued.*

TABLE 2.—*Daily precipitation for December, 1910. District No. 1—Continued.*

Stations.	River basins.	Day of month.																														Total.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Pennsylvania—Cont'd.																																				
Hanover	Susquehanna	T.	T.	T.	*	*	.83				18	.04				T.		12	T.	*	.90	T.	.02			.04	.02	.05					2.18			
Harrisburg	Susquehanna	T.	T.	T.	.36	.75	T.			33	.03	T.			T.		.02	.04	T.	.28	.58	T.	.02			.08	.01	.02			2.57					
Huntingdon	Juniata	T.	T.	T.	.30	.50	.05				.30	T.	T.					.06	.10	T.	.28	.65	T.									2.25				
Hyndman	Potomac	T.	T.	T.							.05	T.	T.					.05															1.83			
Kennett Square	Coast				.09						.35																						1.36			
Lancaster	Susquehanna																																			
Lansdale	Schuylkill	.05	.06																															2.28		
Leavenworth	Susquehanna	T.	.05	.01	.22	.32	.06			T.	.10							.05															0.95			
Le Roy	Juniata	do	.10	.03	.01	.02	.01	.05	T.	T.	.01	T.	.30	.03	T.			.05	.01		.01	.02	.05	.05	.06	.10	.01	.04	.15	.04		2.44				
Lewisburg	Delaware	do	.15	.05	.02	.15	.70	.10				.50																					2.63			
Lloyd	Mifflintown	do																															3.73			
Lock Haven	Delaware	do																																		
Marion	Potomac	T.																																2.65		
Mauch Chunk	Schuykill	T.																																		
Montrose	Susquehanna	.20	.20	.10	T.						T.	T.	T.	T.																				2.96		
Mountain House	Juniata																																			
Muncy Valley	Susquehanna	.15	T.	T.	T.	.35	T.				.10																							1.93		
New Germantown	Susquehanna	do																																	1.95	
Ottsville	Delaware																																			1.82
Philadelphia (1)	Philadelphia	do																																		2.55
Pocono Lake	do																																		3.97	
Point Pleasant	do																																		2.33	
Pottsville	Schuykill	.08																																	3.32	
Reading	Schuykill	do																																	2.22	
Renoval	Susquehanna	.04	T.			.04																												2.34		
Scranton	Susquehanna	.12				.03																												3.35		
Seisholtzville	Schuykill	.02	T.			.14																												2.32		
Selinsgrove	Susquehanna	.02	T.			.02																												1.71		
Shawmont	Schuykill	.03																																2.48		
Shipensburg	Susquehanna																																			
Smiths Corners	Schuykill																																		1.87	
Spring Mount	Coast																																		2.07	
State College	Susquehanna	.03	T.	T.	.02	.10				T.	.15																						3.31			
Towanda	do	.06	.04	T.	T.																													1.52		
Weisboro	do																																	1.55		
West Chester	Coast	.01																																2.34		
Wilkes Barre II	Susquehanna	.01	T.																															1.90		
Williamsport	do																																	2.12		
<i>New Jersey.</i>																																				
Asbury Park	Coast																																		4.22	
Atlantic City	do																																		3.96	
Bayonne	do																																		3.31	
Belvidere	Delaware																																		2.47	
Bergen Point	Coast	T.																																2.60		
Boonton	Passaic																																			
Bridgeton	Coast																																			
Burlington	Delaware	T.																																	2.95	
Canton	Coast	.02	T.			* .90																											3.22			
Cape May City	do	T.	T.			.54																											2.94			
Charlottesville	Passaic																																			
Chatham	do																																		2.09	
Clayton	Coast	T.																																3.70		
College Farm	do																																	2.50		
Culver's Lake	Delaware	.02	T.			.03																											3.05			
Dover	Passaic	T.				.10																											2.90			
Elizabeth	Coast																																	2.79		
Flemington	do																																	2.28		
Haddonfield	Delaware	.08																																3.04		
Hammonston	do																																	3.36		
Hightstown	Delaware	T.																																2.80		
Highwood	do																																	2.27		
Imlaytown	Delaware	.03				.35																											3.22			
Indian Mills	Coast	.14</td																																		

TABLE 2.—*Daily precipitation for December, 1910. District No. 1—Continued.*

Stations.	River basins.	Day of month.																														Total.													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31													
<i>Maryland.</i>																																													
Annapolis.	Coast.				T.	.60	1.10				T.	.30	.51																				.10	3.47											
Bachmans Valley	do.	T.	T.	T.	.40	.80				T.	.30	T.		T.																			.05	2.35											
Baltimore.	do.	T.	T.	T.	.50	.71					.13	T.	T.		T.																		.45	2.45											
Cambridge.	do.				* 1.21						.10	T.																					.31	3.43											
Cheltenham.	do.	T.		T.	.30	.90	.10					.10																						.55	3.55										
Chestertown.	do.				.36	.22	.10					.15																						.18	1.78										
Chewsville.	Potomac.	T.	T.	T.	.16	.28				T.	.52	T.	T.	T.																				.02	1.73										
Clear Spring.	do.		.02	T.								.20	T.		T.																				.37	1.37									
Coleman.	do.				.30	.30					.30	.10																						.35	2.35										
College Park.	do.				.30	.25	.30				T.																							.08	1.86										
Cumberland.	do.				T.	.60	.15					.15																						.40	1.40										
Darlington.	Coast.	T.	T.	T.	.30	.45				T.	.30	T.	T.																					.40	2.40										
Denton.	do.				.34	.82	.17					.12																						.10	2.93										
Easton.	do.				.35	* .72					.16																							.12	2.32										
Emmitsburg.	Potomac.	T.		T.	.30	.70					.25																							.09	1.40										
Fallston.	Coast.	T.	T.	T.	.30	.40	.03				.20	.03		T.	T.																		.03	2.16											
Frederick.	Potomac.	T.		.04	.60	.55	.15				.10	.20		T.	T.																		.06	2.46											
Frostburg.	do.		.03	T.	.01	.45	.60	.03			T.	.30	T.	T.	.04	.10																.01	2.24												
Great Falls.	do.				.02	1.05	.25				.10																						.07	1.64											
Green Spring Furnace.	do.				.02	.50	.30	.76			.10	T.	T.																				.02	2.35											
Keedysville.	do.				.02	.22	.50	.12			T.	.18																					.04	1.83											
Lake Montebello.	Coast.	T.	T.		.28	.52	.05				*	.17	T.	T.	T.																		.01	1.87											
Laurel.	do.				.10	.40	.70	.20				.20																					.40	2.25											
Monrovia.	Potomac.	T.		.05	.45	.45	.06				T.	.10																					.06	1.94											
Pocomoke City.	Coast.				*	1.41	.22					.16	.16																				.37	3.26											
Porto Bello.	do.				T.	.20																													.00	2.00									
Princess Anne.	do.				T.	.20	.26					.08	T.																					.39	3.06										
Salisbury.	Coast.	T.		T.	.60	.80	.10					.08	T.																					.31	2.79										
Sanatorium.	Potomac.	.01	T.		.06	.25	.57	.45				.15	.29	T.																				.73	2.73										
Solomons.	Coast.	T.		T.	.45	.46	.10					.04		T.	T.																			.19	2.19										
Sudlersville.	do.			T.	.40	.60	.20						.30	.03	T.	T.																		.14	3.08										
Tskoma Park.	do.			T.		.80	.20						.30																					.08	2.32										
Taneytown.	Potomac.	.01	T.		.05	.25	.43	.34			T.	.03		T.																			.02	1.53											
Towson.	Coast.	T.		T.	.38	.83	.07					*	.23	T.																				.03	2.24										
Van Bibber.	do.				.44	.52					T.	.23																						.02	2.36										
Westernport.	Potomac.	.02	T.			.38	.40					.05																						.33	1.33										
Woodstock.	Coast.	T.	T.	T.	.43	.60						.15		T.																				.95	1.95										
<i>Delaware.</i>																																													
Delaware City.	Coast.	T.	T.	T.	.30	.20	.10					.30		T.																				.90	0.90										
Dover.	do.	T.	T.	T.	.70	.20						.30	T.																					.45	3.45										
Milford.	do.				.48	1.27	.36					.31	T.																				.24	4.13											
Millsboro.	do.				.25	1.20	.40					.15																					.31	3.79											
Seaford.	do.			T.		.30	.91	.19				.10	T.																				.17	2.81											
<i>District of Columbia.</i>																																													
Washington.	Coast.	T.	T.		.01	.90	.49	T.				.19	T.																				.09	2.64											
<i>Virginia.</i>																																													
Culpeper.	Rappahannock.				T.	*	*	.96				.20																							.96	1.96									
Dale Enterprise.	Shenandoah.				.01	.50	.50					.10																						.03	2.07										
Doswell.	Pamunkey.																																												
Eastville.	Coast.																																												
Fredericksburg.	Rappahannock.																																												
Lincoln.	Potomac.	T.																																											
Mount Weather.	do.	T.	T.			.01	.70	1.96					.08	T.																															
Quantico.	do.																																												
Staunton.	Shenandoah.																																												

TABLE 3.—Maximum and minimum temperatures at selected stations for December, 1910. District No. 1, North Atlantic States.

Date.	Maine.												Massachusetts.												Connecticut.			
	Eastport.		Greenville.		10.		Portland.		Presque Isle.		Rumford.		Concord, N. H.		Amherst.		Boston.		Middleboro.		Nantucket.		Providence, R. I.		Green Hill.		Hartford.	
	Max.	Min.	Max.	Min.	Ma	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	37	32	30	26	34	29	35	30	27	35	30	33	26	36	25	40	31	40	30	42	32	38	30	30	25	38	30	
2.	37	28	29	23	33	31	34	24	31	26	30	25	24	31	18	37	27	35	33	37	29	33	33	30	15	31	24	
3.	19	15	23	15	33	29	31	20	17	26	20	28	20	34	12	36	24	33	17	34	26	33	33	30	19	34	24	
4.	17	11	20	11	21	12	5	16	17	13	16	16	10	10	14	37	23	36	13	36	26	35	35	30	22	35	32	
5.	12	6	11	6	12	8	8	21	13	14	4	18	4	22	11	25	13	26	12	33	17	33	29	17	31	18		
6.	10	5	11	10	12	12	1	18	6	13	6	13	1	15	2	20	8	16	18	22	15	26	23	23	10	20	14	
7.	18	12	22	12	20	12	6	24	9	13	24	24	8	29	11	34	14	31	16	36	18	30	30	25	12	29	16	
8.	18	12	22	13	23	13	13	32	14	20	14	24	6	33	10	33	14	33	13	36	25	35	35	30	12	34	16	
9.	8	3	15	15	17	12	1	17	10	14	14	17	6	21	5	16	2	25	25	25	10	25	20	20	9	26	14	
10.	10	4	6	6	17	12	2	19	5	10	10	15	10	13	5	16	5	24	9	25	22	20	20	6	18	4		
11.	29	21	17	12	22	12	2	22	9	20	5	21	8	20	4	21	2	16	4	22	19	21	21	20	8	18	10	
12.	22	17	21	11	28	12	14	28	20	20	10	32	12	28	10	32	12	28	17	32	22	32	17	19	6	29	12	
13.	23	17	10	6	27	3	3	29	18	15	5	20	10	24	9	28	8	33	17	4	24	24	24	15	30	13		
14.	22	8	10	1	33	33	33	33	16	23	23	20	10	37	13	35	16	35	23	33	20	36	20	35	22			
15.	5	3	32	3	36	3	3	27	2	37	2	37	3	37	7	37	9	37	14	28	33	33	12	36	12			
16.	10	1	3	7	6	1	6	24	15	21	15	21	10	10	0	13	2	14	0	18	6	15	3	16	3			
17.	8	6	6	0	15	6	4	18	6	8	10	14	4	10	4	20	5	24	9	23	11	26	4	26	4			
18.	33	4	19	19	18	18	18	24	5	20	20	20	12	32	6	32	12	38	1	40	28	38	18	38	18			
19.	43	33	33	9	42	13	39	20	35	20	36	19	41	11	41	12	44	15	44	30	44	19	44	30	44	20		
20.	39	31	33	20	40	25	39	39	10	36	19	36	10	36	19	36	12	52	12	44	31	40	21	44	21			
21.	39	31	31	20	40	25	39	39	10	36	19	36	10	36	19	36	12	52	12	44	31	40	21	44	21			
22.	28	21	16	7	35	7	15	15	0	32	-13	8	-7	16	-4	22	2	31	5	25	10	24	6	32	5			
23.	21	15	12	1	35	-7	15	15	0	32	-13	8	-7	16	-4	22	2	31	5	25	10	24	6	32	5			
24.	20	14	10	1	35	-7	15	15	0	32	-13	8	-7	16	-4	22	2	31	5	25	10	24	6	32	5			
25.	14	8	4	1	35	-7	15	15	0	32	-13	8	-7	16	-4	22	2	31	5	25	10	24	6	32	5			
Mns.	29.5	15.7	21.5	6.2	29.8	9.3	29.3	14.6	23.2	3.7	25.5	10.0	29.6	11.6	30.5	13.2	34.8	20.2	35.1	14.3	36.8	24.7	33.7	18.4	28.2	11.7	32.8	17.5

Date.	New Haven, Conn.												Pennsylvania.												Asbury Park, N. J.			
	Addison.		Albany.		Binghamton.		Indian Lake.		Little Falls.		New York.		Everett.		Harrisburg.		Philadelphia.		Scranton.		State College.		Wellboro.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	41	30	32	25	34	27	30	22	12	31	20	39	29	32	24	36	30	38	31	32	24	31	24	32	23	43	30	
2.	34	24	29	17	29	23	23	21	11	22	14	31	26	32	21	35	35	35	25	22	23	33	22	36	25	36	25	
3.	36	23	35	19	34	21	30	23	13	28	16	36	26	32	23	38	33	33	24	22	23	33	22	36	24	36	24	
4.	36	24	35	23	34	20	32	24	10	28	16	35	28	34	23	38	33	33	25	23	23	33	21	31	22	36	24	
5.	29	20	28	20	13	24	11	-10	20	20	12	33	25	31	21	30	26	33	24	28	20	33	18	30	21	38	23	
6.	23	17	24	12	18	10	10	-14	16	4	29	22	24	24	20	28	22	27	20	25	17	26	11	34	24			
7.	29	19	27	13	18	10	23	11	21	14	14	0	30	20	20	18	28	22	24	14	25	11	30	18				
8.	36	18	30	20	33	16	27	18	30	9	18	34	34	22	23	22	37	26	30	21	30	10	35	17				
9.	23	15	24	8	22	11	19	3	20	19	19	27	24	22	17	31	23	22	15	23	8	32	16					
10.	23	7	28	6	21	2	30	-2	21	1	4	26	16	16	6	36	25	26	8	20	2	26	7					
11.	20	13	24	17	14	6	19	10	24	-21	11	0	24	18	32	5	27	17	25	22	28	2	35	20				
12.	29	15	24	9	24	10	22	17	-5	15	4	30	15	27	15	27	20	27	20	21	15	29	9					
13.	31	14	26	9	24	10	22	17	-5	15	4	30	15	27	16	28	17	30	20	22	15	29	10					
14.	35	20	41	20	40	18	39	32	13	33	13	36	40	36	23	38	22	37	15	35	20	38	19					
15.	40	10	37	18	40	5	32	3	-15	33	4	41	14	39	11	42	23	38	9	36	21	34	18					
16.	18	5	22	0	12	1	9	-3	-10	5	-6	20	9	21	13	23	12	23	14	14	6	21	1					
17.	26	5	27	-9	24	-3	24	-6	-21	20	-1	27	10	35	4	29	30	35	16	26	3	27	4					
18.	40	19	41	3	36	20	37	9	-17	30	19	41	22	34	0	34	13	39	22	38	3	41	12					
19.	43	33	35	29	42	31	37	30	-21	34	26	41	31	34	17	42	32	38	12	35	27	40	36					
20.	35	27	31	21	31	25	30	18	-18	31	20	36	24	32	18	33												

TABLE 3.—*Maximum and minimum temperatures at selected stations, December, 1910. District No. 1—Continued.*

Date.	New Jersey.								Maryland.								Virginia.											
	Atlantic City.		Hightstown.		Newton.		Phillipsburg.		Martinsburg, W. Va.		Baltimore.		Darlington.		Frederick.		Westernport.		Millsboro, Del.		Washington, D. C.		Culpeper.		Fredericksburg.		Staunton.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	39	30	39	28			38	28	35	28	38	31	36	26	37	29	30	24	40	29	39	30	40	25	42	24	37	24
2....	35	28	35	22			31	24	35	28	37	31	35	24	36	28	30	25	40	26	38	29	38	29	41	28	37	24
3....	38	28	38	22			35	23	36	26	39	29	36	23	37	25	31	23	41	25	38	27	37	15	39	18	37	14
4....	37	30	38	23			36	24	35	25	35	30	33	26	34	26	32	24	38	24	35	25	37	25	37	28	37	16
5....	36	28	35	21			29	19	33	28	33	27	33	22	30	25	32	24	40	26	33	27	33	23	33	24	31	24
6....	41	26	27	19			24	15	25	25	30	25	29	19	30	32	23	25	42	29	29	25	31	25	32	25	30	24
7....	31	23	30	18			28	13	33	24	26	23	33	20	29	23	28	23	37	20	35	22	35	10	37	18	33	9
8....	38	26	37	13			34	16	36	24	37	26	35	17	32	18	35	24	40	16	37	13	33	6	37	21		
9....	31	17	28	10			27	11	25	16	30	17	28	9	32	13	30	10	33	15	28	11	27	5	32	6	31	4
10....	32	16	29	0			26	4	26	0	30	12	26	3	32	2	33	0	34	6	31	8	30	6	32	10	37	9
11....	35	19	24	19			21	13	35	9	35	25	27	3	32	21	34	20	37	25	37	26	32	13	32	21	41	14
12....	26	14	23	4			25	2	32	24	33	27	23	8	33	28	31	23	31	19	34	26	34	25	37	27	35	25
13....	29	16	32	10			29	14	31	16	31	19	26	9	32	18	27	17	31	15	31	21	32	13	33	18	37	1
14....	38	18	35	12			35	17	41	12	38	18	35	13	39	20	39	19	44	12	43	18	39	2	47	4	43	9
15....	45	23	40	23			42	22	44	28	47	23	42	23	43	25	39	29	51	32	49	26	47	30	50	33	47	25
16....	28	12	38	5			23	8	26	14	26	16	40	10	34	13	30	14	36	15	26	17	39	13	47	17	30	15
17....	31	11	29	2			27	5	39	9	33	14	38	4	4	4	3	3	36	12	34	12	35	5	37	9	35	9
18....	41	27	38	7			35	9	39	9	37	18	34	9	27	6	36	7	43	16	37	14	36	7	40	16	44	10
19....	42	34	41	34			38	30	37	10	42	35	40	32	38	26	39	29	45	31	41	32	42	28	42	32	38	30
20....	39	21	37	24			34	21	33	28	36	23	35	28	35	22	34	19	38	27	35	21	37	25	39	24	32	26
21....	27	17	27	15			21	14	25	17	28	19	28	14	26	16	22	15	30	17	28	18	27	11	31	17	28	17
22....	30	16	31	12			30	13	31	17	34	21	30	15	29	14	34	11	34	17	33	19	33	10	35	10	38	12
23....	44	22	38	15			37	16	36	17	43	28	33	18	33	19	34	26	47	16	44	26	36	20	40	21	40	28
24....	50	31	49	35			46	31	37	25	45	32	43	18	38	30	38	27	54	32	45	30	39	30	40	32	37	28
25....	35	24	38	27			31	19	32	25	34	26	32	21	31	25	30	18	35	24	32	23	33	22	36	25	37	20
26....	37	22	30	17			26	17	32	21	37	26	32	19	31	18	33	17	45	24	37	24	35	29	40	22	42	23
27....	42	31	42	21			39	21	44	19	47	30	44	19	42	19	48	27	50	21	47	23	43	18	48	22	49	22
28....	44	32	45	22			37	22	41	23	44	32	41	24	41	23	39	23	52	25	50	30	47	25	54	28	55	28
29....	46	39	50	34			44	34	50	27	56	38	49	35	47	34	48	35	64	41	62	41	59	36	67	45	60	40
30....	49	23	55	31			50	22	39	36	58	27	49	29	47	31	45	27	60	30	56	27	54	32	64	37	42	39
31....	33	16	31	12			28	9	33	18	31	20	30	14	40	18	34	15	31	19	33	21	35	17	38	19	36	17
Mns..	36.9	23.2	35.8	18.0			32.5	17.3	34.4	20.3	37.4	24.9	34.5	18.0	34.2	20.6	33.7	20.0	41.3	22.1	38.0	23.0	37.1	17.9	40.4	21.4	38.5	20.1